

# Meson Spectroscopy in Few-body Decays (E99-005) Extension Request (2001 Run)

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## Abstract

Experiment 99-005 was approved by PAC 15 to take data during the g6b running period of CLAS. E99-005 studies photo-production of mesons decaying to three-meson final states. It concentrates in the search for exotic mesons and strangonium states. The importance of this physics for JLab has been clearly indicated by the PAC, the JLab user community and several recent workshops and town meetings. Based on preliminary analysis of data taken during the 1999 run shown here, E99-005 will be able to produce a partial wave analysis of similar statistics to those obtained by the most successful experiments in the field, for example, E852 at Brookhaven. To achieve this goal, however, we will need to run longer than originally proposed. We are requesting an extension of our scheduled running time for 2001. Based on the analysis of the data from 1999, we believe that a total number of 12 days will give us the necessary statistics.

## 1 Introduction

Much progress has been made recently in the theoretical description of hadrons lying outside the scope of the constituent quark model. QCD predicts the